WHAT IS CLAIMED IS:

- 1. In a method for performing data communication between a mobile station and a network which have media access control sublayers, respectively, a method for branching data in a mobile communication terminal, comprising the steps of:
- a) allowing each of said media access control sublayers of said mobile station and network to attach logical channel types based on traffic characteristic information and a radio bearer status to a media access control header contained in data to be sent, in a data sending mode;
- b) allowing each of said media access control sublayers to branch said data to be sent, to transport channels corresponding to the attached logical channel types;
- c) allowing each of said media access control sublayers to determine logical channels corresponding to logical channel types of a media access control header contained in received data in a data receiving mode; and
- d) allowing each of said media access control sublayers to branch said received data to said determined logical channels.
- 2. A method for branching data in a mobile communication terminal, as set forth in Claim 1, wherein each of said steps

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b) and d) includes the step of allowing each of said media sublayers to perform a channel mapping access control operation in a one-to-one manner, a channel multiplexing operation in a many-to-one manner and a channel demultiplexing operation in a one-to-many manher to branch said data to be sent or said received data.

- 3. A method for branchifig data in a mobile communication terminal, as set forth in Claim 1, wherein said traffic characteristic information includes traffic characteristic identifiers transferred from a radio resource control layer and other upper layers.
- 4. A method for branching data in a mobile communication terminal, as set forth in Claim 3, wherein each of said traffic characteristic identifiers represents any one of random access data, synchronization data, system information, paging information, / forward access grant information, short message service data, no radio bearer-type short packet data, signaling data, radio bearer-type short/long packet data, multicast signaling data, multicast data characteristics.
 - 5. A method/for branching data in a mobile communication 19

terminal, as set forth in Claim 1, wherein, in said data sending mode, said media access /control sublayer of said mobile station is adapted to, if said data to be sent is random access data, attach a typ# of a common control channel to said media access control header contained in said data to be sent and map said common con/trol channel to a random access channel in a one-to-one manner, said common control channel and random access channel bei/ng logical and transport channels for said random access data, respectively.

6. A method for branching data in a mobile communication terminal, as set forth $rac{1}{4}$ n Claim 1, wherein, in said data receiving mode, said media access control sublayer of said mobile station is adapte ϕ to, if said logical channel types of said media access control header contained in said received data correspond respectively to a synchronization control channel, a broadcast control channel and a paging control channel, map a synchr ϕ nization channel, a broadcast channel and a paging channel respectively to said synchronization control channel, broadcast control channel and paging control channel in a one-to-one manner to branch said received data to broadcast control said synchronization control channel, channel and paging | control channel, said synchronization control channel and synchronization channel being logical and

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transport channels for synchronization data, respectively, said broadcast control channel and broadcast channel being logical and transport channels for system information, respectively, said paging control channel and paging channel being logical and transport charnels for paging information, respectively.

7. A method for branching data in a mobile communication terminal, as set forth in Claim 1, wherein, in said data sending mode, said media access control sublayer of said mobile station is adapted to, if said traffic characteristic information includes synchronization data, system information, paging information and forward access grant information characteristics, attach types of a synchronization control channel, broadcast control channel, paging control channel and common control channel to said media access control header contained in said data to be sent and map said synchronization control channel, broadcast control channel, paging control channel and common control channel respectively to associated transport channels in a one-to-one manner to branch said data to be sent, to the associated transport channels, synchronization control channel, broadcast control channel, paging control channel and common control channel being said synchronization data, logical channels for

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information, paging information and forward access information characteristics, respectively.

8. A method for branching dat d in a mobile communication terminal, as set forth in Claim/1, wherein, in said data sending mode, said media access control sublayer of said mobile station is adapted to, if said traffic characteristic information includes random access data, short message data and no radio bearer-type short packet data characteristics, attach types of a common control channel, dedicated control channel and dedicated traffic channel to said media access control header contained in said data to be sent and multiplex said common control channel, dedicated control channel and dedicated traffic channel to a random access channel in a many-to-one manner to branch said data to be sent, to the random access channel, said common control channel, dedicated control channel and dedicated traffic channel being logical channels for said random adcess data, short message data and radio bearer-type short packet data characteristics, respectively, said random access channel being a transport channel.

9. A method for branching data in a mobile communication terminal, as set forth in Claim 1, wherein, in said data

sending mode, said media access control sublayer of said mobile station is adapted to, if said traffic characteristic information includes signaling data and radio bearer-type short/long packet data characteristics, attach types of a dedicated control channel and dedicated traffic channel to said media access control header contained in said data to be and multiplex said dedicated control channel dedicated traffic channel to a dedicated channel in a many-toone manner to branch said data $t\phi$ be sent, to the dedicated channel, said dedicated control $oldsymbol{\phi}$ hannel and dedicated traffic channel being logical channels for said signaling data and radio bearer-type short/long /packet data characteristics, respectively, said dedicated channel being a transport channel.

10. A method for branching data in a mobile communication terminal, as set forth in Claim 1, wherein, in said data sending mode, said media access control sublayer of said if said traffic characteristic network adapted to/ information includes forward access grant information, short message data and no radio bearer-type short packet data characteristics, attack types of a common control channel, dedicated control channel and dedicated traffic channel to said media access control header contained in said data to be

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sent and multiplex said common control channel, dedicated control channel and dedicated traffic channel to a forward access channel in a many-to-one manmer to branch said data to be sent, to the forward access channel, said common control channel, dedicated control channel and dedicated traffic channel being logical channels for said forward access grant information, short message data and no radio bearer-type short packet data characteristics, respectively, said forward access channel being a transport chamnel.

11. A method for branching data in a mobile communication terminal, as set forth in /Claim 1, wherein, in said data sending mode, said media /access control sublayer of said adapted to, / if network is said traffic characteristic information includes multicast signaling data and multicast data characteristics, at tach types of a dedicated control channel and dedicated traffic channel to said media access control header contained in said data to be sent and multiplex said dedicated control channel and dedicated traffic channel to a downlink shared channel in a many-to-one manner to branch said data to be sent, to the downlink shared channel, said dedicated control channel and dedicated traffic channel being logical channels for said multicast signaling data and multicast data charadteristics, respectively, said downlink

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shared channel being a transport channel.

12. A method for branching dat | in a mobile communication terminal, as set forth in Claim/1, wherein, in said data sending mode, said media acces control sublayer of said if said traffic characteristic adapted to, is information includes signaling data and radio bearer-type short/long packet data characteristics, attach types of a dedicated control channel and dedicated traffic channel to said media access control header contained in said data to be sent and multiplex said dedicated control channel dedicated traffic channel to a dedicated channel in a many-toone manner to branch said data to be sent, to the dedicated channel, said dedicated control channel and dedicated traffic channel being logical channels for said signaling data and radio bearer-type short/lbng packet data characteristics, respectively, said dedicated channel being a transport channel.

- 13. In a method for performing data communication between a mobile station and a network which have media access control sublayers, respectively, a method for branching data in a mobile communication terminal, comprising the steps of:
 - a) allowing each of said media access control sublayers

said mobile station and network to set information regarding connection between logical channels and transport channels on the basis of traffic kharacteristic information and a radio bearer status;

- b) allowing each of said media access control sublayers to attach logical channel types based on the set connection information to a media access control header contained in data to be sent, in a data sending mode; and
- c) allowing each of said media access control sublayers to branch said data to be sent, to transport channels corresponding to the attached logical channel types.
- 14. A method for branching data in a mobile communication terminal, as set forth in ¢laim 13, further comprising the steps of:
- d) allowing each of said media access control sublayers to determine logical channels corresponding to logical channel types of a media access control header contained in received data in a data receiving mode; and
- e) allowing each of said media access control sublayers to branch said received data to said determined logical channels.
 - 15. A method for branching data in a mobile communication 26

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terminal, as set forth in Claim 14, wherein each of said steps c) and e) includes the step of allowing each of said media access control sublayers to perform a channel mapping operation in a one-to-one manner, /a channel multiplexing operation in a many-to-one manner and a channel demultiplexing operation in a one-to-many manner/to branch said data to be sent or said received data.

- 16. A method for branching/data in a mobile communication terminal, as set forth in C/Laim 13, wherein said traffic characteristic information includes traffic characteristic identifiers transferred from a radio resource control layer and other upper layers.
- 17. A method for branching data in a mobile communication terminal, as set forth in Claim 16, wherein each of said traffic characteristic identifiers represents any one of random access data, /synchronization data, system information, paging information, forward access grant information, short message service data, no radio bearer-type short packet data, multicast signaling data, multicast data and characteristics.